

Global Smokeless Explosion-Proof Valve Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G3311C457740EN.html>

Date: June 2026

Pages: 121

Price: US\$ 4,480.00 (Single User License)

ID: G3311C457740EN

Abstracts

The global Smokeless Explosion-Proof Valve market size is expected to reach \$ 225 million by 2032, rising at a market growth of 15.0% CAGR during the forecast period (2026-2032).

Smokeless Explosion-Proof Valve is a specialized safety component designed for battery pack systems in electric vehicles and energy storage, engineered to release internal pressure without generating smoke during abnormal conditions such as thermal runaway or gas accumulation. It features precise activation thresholds and high-strength PTFE and aluminum alloy materials to ensure controlled pressure relief while maintaining structural integrity and system sealing. Key advantages include rapid response, high reliability under extreme conditions, smoke-free operation, robust structural durability, and compatibility with advanced battery safety architectures. In 2025, the capacity utilization rate was approximately 70%, and the industry's average gross margin was around 35%. Production in 2025 totaled 14.61 million units, with an average price of 5.6 USD/unit. Its upstream primarily consists of PTFE and aluminum alloys, with representative suppliers including Chemours, 3M, Chalco, and China Molybdenum, providing critical materials that determine chemical resistance, mechanical strength, and durability. The midstream focuses on precision valve engineering, structural design, sealing technology, and integration with battery pack safety systems to ensure accurate and reliable pressure relief. The downstream is mainly driven by automotive and energy storage battery applications, with key customers including Tesla, BYD, and CATL.

This report studies the global Smokeless Explosion-Proof Valve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Smokeless Explosion-Proof Valve and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Smokeless Explosion-Proof Valve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Smokeless Explosion-Proof Valve total production and demand, 2021-2032, (K Units)

Global Smokeless Explosion-Proof Valve total production value, 2021-2032, (USD Million)

Global Smokeless Explosion-Proof Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Smokeless Explosion-Proof Valve consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Smokeless Explosion-Proof Valve domestic production, consumption, key domestic manufacturers and share

Global Smokeless Explosion-Proof Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Smokeless Explosion-Proof Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Smokeless Explosion-Proof Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Smokeless Explosion-Proof Valve market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include PUW, VOIR, Pan Asian Microvent Tech, GVS, Milvent Technology, JIN HAN, Guangdong Shangda Energy Technology, Freudenberg, Donaldson, Spider (Xiamen) Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Smokeless Explosion-Proof Valve market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Smokeless Explosion-Proof Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Smokeless Explosion-Proof Valve Market, Segmentation by Type:

Aluminium Valve

Plastic Valve

Others

Global Smokeless Explosion-Proof Valve Market, Segmentation by Pressure Relief:

Single-stage Vent Valve

Dual-stage Vent Valve

Others

Global Smokeless Explosion-Proof Valve Market, Segmentation by Grade:

Pack Level

Module Level

Global Smokeless Explosion-Proof Valve Market, Segmentation by Application:

Power Battery

Energy Storage Battery

Others

Companies Profiled:

PUW

VOIR

Pan Asian Microvent Tech

GVS

Milvent Technology

JIN HAN

Guangdong Shangda Energy Technology

Freudenberg

Donaldson

Spider (Xiamen) Technology

GORE

Sinri

Key Questions Answered:

1. How big is the global Smokeless Explosion-Proof Valve market?
2. What is the demand of the global Smokeless Explosion-Proof Valve market?
3. What is the year over year growth of the global Smokeless Explosion-Proof Valve market?
4. What is the production and production value of the global Smokeless Explosion-Proof Valve market?
5. Who are the key producers in the global Smokeless Explosion-Proof Valve market?
6. What are the growth factors driving the market demand?

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